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Groundwater
sampling results,
Livingston Rail
Yard, Livingston,
Montana

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DECEMBER 1989 MONTHLY GROUND WATER SAMPLING RESULTS LIVINGSTON RAIL YARD LIVINGSTON, MONTANA

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DECEMBER 1989 MONTHLY
GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD
LIVINGSTON, MONTANA

Submitted To:

Montana Department of Health
and Environmental Sciences
Cogswell Building
Helena, Montana 59620

Submitted By:

Envirocon, Inc.
101 International Way
P.O. Box 8243
Missoula, Montana 59807

Submittal Date:

March 15, 1990

ENVIROCON, INC.

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1.0 INTRODUCTION

Burlington Northern Railroad, through its contractor Envirocon, Inc., took 16 samples from 11 monitoring wells at the Livingston rail yard and from the B Street Municipal Water Well in the city of Livingston on December 20, 21, and 26, 1989. Two of the 16 samples were trip blanks and two were field duplicates. All samples were sent to Energy Laboratories, Inc. in Billings, Montana. All samples were analyzed for purgeable halocarbons by EPA method 601 except those from Wells L-87-2 and L-87-7 and the B Street Well, which were analyzed for volatile organic compounds by EPA method 524.2. Well numbers, sampling numbers, and sample methods are shown on Table 1.0. Well locations and summarized analytical results are shown on Figure 1.0. Complete laboratory results are also enclosed.

The Montana Department of Health and Environmental Sciences (MDHES) split samples with Envirocon at the B Street Municipal Well and Well L-88-13. MDHES samples were analyzed by EPA method 502.2 at the MDHES laboratory in Helena, Montana. Results of these splits are shown in comparison to Envirocon results on Figure 1.0.

2.0 RESULTS AND INTERPRETATION

The sample results are consistent with previous monthly results, with the only notable concentration changes occurring at Wells L-87-2, LS-8, and LS-11. These changes are summarized below. More complete interpretation of monthly and seasonal variations in contaminant concentrations throughout the rail yard will be presented in the February 1990 Quarterly Ground Water Report.

The DCE concentration (cis-1,2-DCE and trans-1,2-DCE combined) detected in Well L-87-2 was 1516 ppb, down from 2571 ppb recorded in the November 1989 sample round. The detection of 0.94 ppb of vinyl chloride at Well L-87-2 in December confirmed the first detection of vinyl chloride at this well during the November 1989 sample round.

TABLE 1.0

CORRELATION OF WELL AND SAMLE NUMBERS
Dec-89

SAMPLE NUMBER	WELL NUMBER	ANALYTICAL METHOD*	SAMPLE METHOD	SAMPLE DATE
140101-208	TRIP BLANK	601	N/A	12/20/89
140101-209	L87-7	524.2	DBP	12/20/89
140101-210	L-87-8	601	DBP	12/20/89
140101-211	L-88-13	601	DBP	12/20/89
140101-212	#6	601	DBP	12/20/89
140101-213	LS-8	601	DBP	12/20/89
140101-214	L-87-2	524.2	DBP	12/20/89
140101-215	DUP OF L-87-2	524.2	DBP	12/20/89
140101-216	B STREET	524.2 & 418.1	TAP	12/20/90
140101-217	L-88-10	601	DBP	12/26/89
140101-218	LS-11	601	DBP	12/26/89
140101-219	DUP OF LS-11	601	DBP	12/26/89
140101-220	# 7	601	DBP	12/26/89
140101-221	L-87-3	601	DBP	12/26/89
140101-222	L-87-5	601	DBP	12/26/89
140101-223	TRIP BLANK	601	N/A	12/26/89

NOTES: * Refers to EPA analytical method
DBP - Dedicated bladder pump
NDBP - Non-dedicated bladder pump
N/A - Not applicable

Monitoring Wells LS-8 and LS-11 continue to show monthly shifts in concentrations of organics. The detection of 3.6 ppb of chlorobenzene at Well LS-8 is an increase from previously undetectable concentrations of chlorobenzene recorded monthly from June 1989 through November 1989. Envirocon had previously detected chlorobenzene at Well LS-8 at 27 ppb during the May 1989 sample round. The results from Well LS-11 show no detectable concentrations of chlorobenzene. This is a decrease from 305 ppb recorded during the November 1989 sample round. The anomalies are being investigated and will be discussed in the February quarterly report.

3.0 QA/QC RESULTS

Envirocon followed the QA/QC program outlined in the Interim Remedial Measures Work Plan during the December 1989 sample round. As shown in the attached laboratory result forms, no detectable concentrations of any method 601 analytes were found in the two trip blanks. As shown on Figure 1.0, results of field duplicates taken from Wells L-11 and L-87-2 correlate well with the results from the original samples. MDHES duplicate sample results from the B Street Well and Well L-88-13 match well with Envirocon results, as shown on Figure 1.0. Trihalomethanes (bromoform and chlorodibromomethane) detected in the MDHES sample from the B Street Well are most likely a result of chlorination of the water in this well by the city of Livingston. Envirocon did not analyze for the detection of trihalomethanes.

APPENDIX A

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WATER ANALYSIS

	L-88-10	LS-11	DUPL OF LS-11
LAB NO.	89-22602	89-22603	89-22604
SAMPLE IDENTIFICATION	140101-217	140101-218	140101-219
SAMPLE SUBMITTED	12/27/89	12/27/89	12/27/89
SAMPLE DATE	12/26/89	12/26/89	12/26/89
SAMPLE TIME	1040	1125	1125
Purgeable Organics (EPA Method 601)	ug/l	ug/l	ug/l
Bromodichloromethane	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Bromomethane	<1.0	<1.0	<1.0
Carbon tetrachloride	<0.50	<0.50	<0.50
Chlorobenzene	40	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	<1.0	<1.0	<1.0
2-Chlorotoluene	2.5	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	2.2	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	2.4	0.8	1.1
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	350	63	61
trans-1,2-Dichloroethene	3.7	2.6	2.8
1,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0
Methylene chloride	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	151	63	62
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Trichloroethene	22	17	17
Trichlorofluoromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<1.0	<1.0	<1.0

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WATER ANALYSIS	#7	L-87-3	L-87-5
LAB NO.	89-22605	89-22606	89-22607
SAMPLE IDENTIFICATION	140101-220	140101-221	140101-222
SAMPLE SUBMITTED	12/27/89	12/27/89	12/27/89
SAMPLE DATE	12/26/89	12/26/89	12/26/89
SAMPLE TIME	1216	1302	1338
Purgeable Organics (EPA Method 601)	ug/l	ug/l	ug/l
Bromodichloromethane	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Bromomethane	<1.0	<1.0	<1.0
Carbon tetrachloride	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<1.0	60	4.5
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0
Methylene chloride	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	1.7	181	270
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Trichloroethene	<0.50	18	6.8
Trichlorofluoromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<1.0	<1.0	<1.0

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WATER ANALYSIS

TRIP BLANK

LAB NO.	89-22608
SAMPLE IDENTIFICATION	140101-223
SAMPLE SUBMITTED	12/27/89
SAMPLE DATE	12/26/89
SAMPLE TIME	1400
Purgeable Organics (EPA Method 601)	ug/l
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

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EPA WATER SUPPLY QUALITY
CONTROL SAMPLE

Volatile Organic Contaminants

PROJECT: Livingston / BN

PARAMETER	True Value, ug/l	P (%)	Range for P (%)
Methylene Chloride	5.0	99	60-140
1,1-Dichloroethane	4.9	79	60-140
1,2-Dichloroethane	5.0	93	60-140
Bromodichloromethane	5.1	101	60-140
1,3-Dichloropropane	5.0	84	60-140
1,2,3-Trichloropropane	5.1	115	60-140
Chlorobenzene	5.0	98	60-140
Bromobenzene	5.0	95	60-140
1,2-Dichlorobenzene	5.2	90	60-140

P = Percent recovery measured.

This EPA Quality Control sample was analyzed with your lab no.s 89-22602 thru 89-22608 with the above results.

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PROJECT: Livingston / BN

WATER ANALYSIS	TRIP BLANK	L-87-8	L-88-13	#6	LS-8
LAB NO.	89-22399	89-22400	89-22401	89-22402	89-22403
SAMPLE IDENTIFICATION	140101-208	140101-210	140101-211	140101-212	140101-213
SAMPLE SUBMITTED	12/22/89	12/22/89	12/22/89	12/22/89	12/22/89
SAMPLE DATE	12/20/89	12/20/89	12/20/89	12/20/89	12/20/89
SAMPLE TIME	0815	1212	1300	1350	1450
Purgeable Organics (EPA Method 601):	ug/l	ug/l	ug/l	ug/l	ug/l
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	1.0	<1.0	3.6
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<1.0	6.0	13	<1.0	47
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	1.2
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	73	64	2.2	105
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<0.50	11	10	<0.50	13
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0

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WATER ANALYSIS

PROJECT: Livingston / BN

LAB NO.: 89-22407 B STREET

IDENTIFICATION	140101-216
SAMPLE SUBMITTED	12/22/89
SAMPLE DATE	12/20/89
SAMPLE TIME	1100

Total Petroleum Hydrocarbons	<0.1 mg/l

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WATER ANALYSIS

PROJECT: Livingston / BN

EPA WATER SUPPLY QUALITY
CONTROL SAMPLE

Volatile Organic Contaminants

Parameter	True Value ug/l	P (%)	Range for P (%)
Dichloromethane	5.0	112	60-140
1,1-Dichloroethane	4.9	82	60-140
1,2-Dichloroethane	5.0	108	60-140
Bromodichloromethane	5.1	116	60-140
1,3-Dichloropropane	5.0	116	60-140
1,2,3-Trichloropropane	5.1	93	60-140
Chlorobenzene	5.0	114	60-140
Bromobenzene	5.0	92	60-140
1,2-Dichlorobenzene	5.2	95	60-140

P = Percent recovery measured.

This EPA Quality Control sample was analyzed with your
lab no.s 89-22404 thru 89-22407 with the above results.

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DUP OF

	L-87-1	L-87-2	L-87-2	B STREET
LAB NO.	89-22404	89-22405	89-22406	89-22407
SAMPLE IDENTIFICATION	140101-209	140101-214	140101-215	140101-216
SAMPLE SUBMITTED	12/22/89	12/22/89	12/22/89	12/22/89
SAMPLE DATE	12/20/89	12/20/89	12/20/89	12/20/89
SAMPLE TIME	1120	1630	1635	1100
VOLATILE ORGANIC CONSTITUENT	ug/l	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
p-Xylene	<1.0	<1.0	<1.0	<1.0
m-Xylene	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	3.7	3.2	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	71	66	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	2.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	4.1	3.3	0.50
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	3.6	3.4	<1.0
1,2-Dibromo-3-Chloropropane	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	<1.0	<1.0	<1.0	<1.0
Naphthalene	2.6	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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WATER ANALYSIS

PROJECT: Livingston / BN

PAGE 1

	L-87-7	L-87-2	DUP OF L-87-2	B STREET
LAB NO.	89-22404	89-22405	89-22406	89-22407
SAMPLE IDENTIFICATION	140101-209	140101-214	140101-215	140101-216
SAMPLE SUBMITTED	12/22/89	12/22/89	12/22/89	12/22/89
SAMPLE DATE	12/20/89	12/20/89	12/20/89	12/20/89
SAMPLE TIME	1120	1630	1635	1100
VOLATILE ORGANIC CONSTITUENT	ug/l	ug/l	ug/l	ug/l
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	0.94	0.83	<0.50
Bromomethane	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	16	16	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	1500	1650	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0
Benzene	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	39	35	<0.50
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	1.1	1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	2.3	2.0	<0.50
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	124	115	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON
PO BOX 8243
MISSOULA MT 59807

PROJECT: Livingston/BN

Quality Assurance Spiked Analysis

CONSTITUENT	SPIKE AMOUNT ug/l	P (%)	RANGE FOR P (%)
Bromochloromethane	5.0	117	60-140
Chloroform	5.0	109	60-140
Carbon Tetrachloride	5.1	84	60-140
Trichloroethene	5.0	92	60-140
1,2-Dibromoethane	5.0	112	60-140
1,1,1,2-Tetrachloroethane	4.3	87	60-140
Tetrachloroethene	5.0	89	60-140
1,2-Dibromo-3-Chloropropane	5.0	92	60-140
1,3-Dichlorobenzene	5.0	100	60-140

P = percent recovery measured.

NOTE: Lab no. 89-22401 was spiked
with the above constituents
with these results.

cc: Envirocon, Livingston.

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ENVIROCON
PO BOX 3243
MISSOULA MT 59807

PROJECT: Livingston / BN

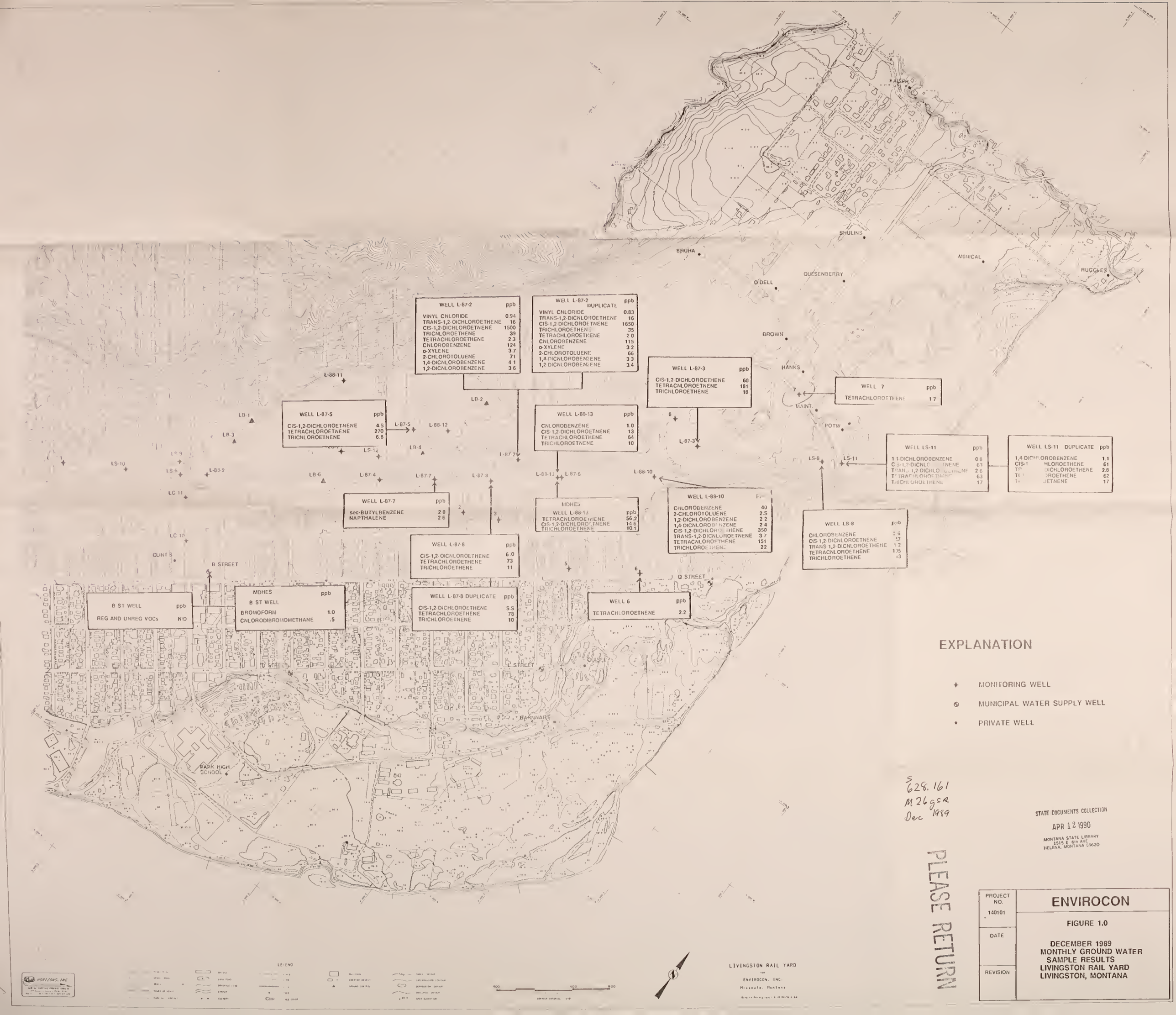
WATER ANALYSIS

L-87-8

	Duplicate
LAB NO.	89-22400
SAMPLE IDENTIFICATION	140101-210
SAMPLE SUBMITTED	12/22/89
SAMPLE DATE	12/20/89
SAMPLE TIME	1212
Purgeable Organics (EPA Method 601):	ug/l
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	5.5
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	78
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	10
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

cc: Envirocon, Livingston.

FIGURE 1.0



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PROJECT NO. 140101	ENVIROCON
DATE	FIGURE 1.0 DECEMBER 1989 MONTHLY GROUND WATER SAMPLE RESULTS LIVINGSTON RAIL YARD LIVINGSTON, MONTANA
REVISION	